| | Application No. | Applicant(s) | |
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| | 40/005 074 | I KOMALOKI ET AL | |
| Notice of Allowability | 10/635,071 Examiner | KOWALSKI ET AL. Art Unit | |
| | Laminer | | |
| | Khanh Dinh | 2151 | <u>, </u> |
| The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to | olication. If not included will be mailed in due course | |
| 1. This communication is responsive to <u>10/30/2006</u> . | | | |
| 2. The allowed claim(s) is/are <u>4-10</u> . | | | |
| 3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: | | | |
| 1. Certified copies of the priority documents have | | | |
| 2. Certified copies of the priority documents have | | | |
| 3. Copies of the certified copies of the priority doc | cuments have been received in this | national stage application fro | m the |
| International Bureau (PCT Rule 17.2(a)). | | | |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | complying with the requireme | ents |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give | | | OF |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | |
| (a) I including changes required by the Notice of Draftspers | son's Patent Drawing Review (PTO- | 948) attached | |
| 1) 🗌 hereto or 2) 📗 to Paper No./Mail Date | | | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | s Amendment / Comment or in the C | office action of | |
| Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the | | | of |
| DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I | SIT OF BIOLOGICAL MATERIAL R FOR THE DEPOSIT OF BIOLOGICA | nust be submitted. Note the AL MATERIAL. | е |
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| Attachment(s) | _ | | |
| 1. Notice of References Cited (PTO-892) | 5. Notice of Informal P | atent Application | |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. ☐ Interview Summary Paper No./Mail Dat | | |
| Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date | 7. Examiner's Amendo | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | | nt of Reasons for Allowance | |
| | 9. Other | 111 1 11 | , |
| | A | Khanh Binh | |
| • | | KHANH DINH PRIMARY EXAMINER | |

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06) **TECHNOLOGY CENTER 2100**

ALLOWANCE

1. This is in response to the Amendment filed on 10/30/2006.

Terminal Disclaimer

2. The terminal disclaimer filed on 10/30/2006 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of the US Patent Number 6,631,410 B1 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

- 3. Claims 4-10 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The above mention claims are allowable over the prior art of record does not appear to each or render obvious the claimed limitations in combination with the specific added limitations as recited in independent claims and subsequent dependent claims.

For independent claim 4, none of the cited prior art discloses or teaches a method of synchronizing a multimedia content stream for output to a plurality of wired and wireless output devices in a network having plural realms, wherein each realm includes a connection control processor (CTL) comprising a combination of: determining a buffer delay as TD= N*TED*Rp, where TD is the delay size, N is the byte size of a

Application/Control Number: 10/635,071

Art Unit: 2151

packet, TED is an end-to-end delay, and Rp is the transmission rate of packets per second, transmitting the buffer delay to all CTLs in all realms of the network and transmitting the multimedia content stream to all realms in the network.

For independent claim 8, none of the cited prior art discloses or teaches A method for synchronizing a multimedia content stream signal, emanating from at least one multimedia source, for play through a plurality of output devices, comprising a combination of: synchronizer, including a wired realm buffer for storing the multimedia content stream signal; an output device connected to the wired realm delay synchronizer; and a wired realm connection control processor (CTL) connected between the first wired realm transceiver and the wired realm delay synchronizer for using delay information measured, signaled and updated from the output realms to synchronize playback at each of the output devices; the invention further includes the steps of: providing for each wireless realms: a wireless realm transceiver; a wireless realm delay synchronizer including a wireless realm buffer for storing the multimedia content stream signal an output device connected to the wireless realm delay synchronizer and a wireless realm connection control processor (CTL) connected between the wireless realm transceiver and the wireless realm delay synchronizer, disseminating medium access control (MAC) layer information about delay an iitter between the wireless realm transceiver and the wireless realm delay synchronizer; determining a wireless realm buffer delay for streaming the multimedia content stream signal from the wireless realm buffer to an output device; transmitting the

Application/Control Number: 10/635,071

Art Unit: 2151

wireless realm buffer delay to the wired realm CTL and transmitting the wired realm buffer delay to the wireless realm CTL.

Conclusion

Page 4

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Khanh Dinh whose telephone number is (571) 272-

3936. The examiner can normally be reached on Monday through Friday from 8:00 A.m.

to 5:00 P.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Zarni Maung, can be reached on (571) 272-3939. The fax phone number

for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

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have questions on access to the Private PAIR system, contact the Electronic Business

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KHANH DINH PRIMARY EXAMINER TECHNOLOGY CENTER 2100

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